

Content: Science  
 Grade Level: 8  
 Team Members: Bobby, Chatmon and Gray  
 Unit CFA's: 8  
 District Assessments: 4  
 Total: 12

## QUARTER 1

Dates	Unit Title	Objectives
<b>CFA date: September 27 &amp; October 2</b>	<b>Unit 1 &amp; 2: Scientific Investigation &amp; Atomic Structure</b>	PS.1a: chemicals and equipment are used safely PS.1b: Measurements PS.1c: Conversions PS.1d: Measurement Tools PS.1e: Scientific Notation PS.1f: Independent and dependent variables, constants, controls, and repeated trials PS.1k: Research methods PS.1m: Models are constructed PS.3a: Dalton, Thomson, Rutherford, and Bohr PS.3b: Atomic Structure
<b>CFA date: October 22-23</b>	<b>Unit 3: Periodic Table</b>	PS.1k: Research methods PS.1m: Models are constructed PS.4a: symbols, atomic numbers, atomic mass, chemical families (groups), and periods; PS.4b: Metals, Metalloids, and Nonmetals; and PS.4c: Ionic and covalent bonding.
<b>CFA date: November 15-18</b>	<b>Unit 4 &amp; 5: Basic Nature of Matter and Changes of Matter</b>	PS.1i: Construct and interpret data PS.1j Conclusions PS.1n: Current applications PS.2a: Particle theory of matter PS.2b: Elements, compounds, mixtures, acids, bases, and salts PS.2c: Solids, liquids, and gases PS.2d: Physical properties PS.2e: Chemical properties PS.5a: Physical changes PS.5b: Chemical changes

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		PS.5c: Nuclear reactions
<b>Testing Window</b>	<b>District Benchmark Assessment</b>	<b>Quarter 1 Objectives</b>

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## QUARTER 2

Dates	Unit Title	Objectives
<b>CFA Date: December 4-5</b>	<b>Unit 6: Temperature and Heat</b>	PS.7a: Temperature scales and absolute zero PS.7b: Phase change PS.7c: Conduction, convection, and radiation PS.7d: Thermal energy transfer
<b>CFA Date: December 18-19</b>	<b>Unit 7:Energy</b>	PS.6a: Potential and kinetic energy PS.6b: mechanical, chemical, electrical, thermal, radiant, and nuclear energy
<b>Testing Window</b>	<b>District Benchmark Assessment</b>	<b>Quarter 2 Objectives</b>

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### QUARTER 3

Dates	Unit Title	Objectives
<b>CFA Date: February 4-5</b>	<b>Unit 8: Light &amp; Sound</b>	PS.9a: Wave Characteristics PS.9b: Wave behavior of light PS.9c: Lenses and mirrors PS.9d: Electromagnetic Spectrum PS.9e: Applications of light PS.8a: Wave Characteristics PS.8b: Resonance PS.8c: Compression Waves PS.8d: Applications of Sound
<b>Testing Window</b>	<b>District Benchmark Assessment</b>	<b>Quarter 3 Objectives</b>
<b>CFA Date: February 27-28</b>	<b>Unit 10: Work, Force, and Motion</b>	PS.10a: speed, velocity, and acceleration PS.10b: Newton's laws of motion PS.10c: Work, force, mechanical advantage, efficiency, and power PS.10d: Technological applications of work, force, and motion.
<b>CFA Date: March 17-18</b>	<b>Unit 11: Electricity &amp; Magnetism</b>	PS.11a: Static electricity, current electricity, and circuits; PS.10b: Relationship between a magnetic field and an electric current PS.11c: Electromagnets, motors, and generators and their uses PS.11d: conductors, semiconductors, and insulators.

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## QUARTER 4

Dates	Unit Title	Objectives
Testing Window	Mock SOL Test	Based on State Testing Blueprint
March 29-May 10	<p style="text-align: center;"><b>Data Based Review</b> Topics and objectives to be determined using data from Unit CFA's, DBA's and Star Assessments.</p> <p style="text-align: center;">Will be detailed in 4 week SOL Plan</p>	

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<b>Unit Title</b>	<b>Copy of Test to Department Chair</b>	<b>Test Administered to Students</b>	<b>Data Team Meeting</b>	<b>Data Packet Due to Department Chair</b>
<b>Unit 1 &amp; 2 Scientific Investigation &amp; Atomic Structure</b>	9/20/19	9.27.19 10.2.19	10/11/19	10/15/19
<b>Unit 3 Periodic Table</b>	10/16/19	10.22.19 10.23.19	11/1/19	11/4/19
<b>Unit 4 &amp; 5 Nature of Matter &amp; Changes of Matter</b>	11/8/19	11.15.19 11.18.19	11/22/19	11/25/19
<b>Unit 6 Temperature &amp; Heat</b>	11/29/19	12.4.19 12.5.19	12/13/19	12/16/19
<b>Unit 7 Energy</b>	12/12/19	12.18.19 12.19.19	1/6/20	1/7/20
<b>Unit 8 &amp; 9 Light &amp; Sound</b>	1/29/20	2.4.19 2.5.19	2/14/20	2/17/20
<b>Unit 10 Work, Force &amp; Motion</b>	2/21/20	2.27.19 2.28.19	2/28/20	3/2/20
<b>Unit 11 Electricity &amp; Magnetism</b>	3/11/20	3.17.19 3.18.19	3/27/20	3/30/20